

Appl. No. 10/821,276
Examiner: Chen, Wen-Ying, Art Unit 2871
In response to the Office Action dated July 19, 2005

Date: October 19, 2005
Attorney Docket No. 10114021

AMENDMENTS TO THE DRAWINGS

The attached one (1) sheet of drawings include changes to Figures 4.

Attachment: Replacement Sheets (1)

REMARKS

Applicant thanks the Examiner for acknowledging Applicant's claim to foreign priority and receipt of the certified copy of the priority document. Responsive to the Office Action mailed on July 19, 2005 in the above-referenced application, Applicant respectfully requests amendment of the above-identified application in the manner identified above and that the patent be granted in view of the arguments presented. No new matter has been added by this amendment.

Present Status of Application

Claims 1 and 8-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Davenport et al (U.S. Patent No. 5,398,171). Claims 3-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Davenport et al in view of Okamori et al (U.S. 2002/0008791). Fig. 4 is objected to for informalities. Claim 2 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all the limitations of the base claim and any intervening claims.

In this paper, claim 1 is amended to recite that the light source is coaxially disposed with the optical axis. Support for this amendment can be found on page 4, line 16 to page 5, line 4 of the application. New claims 10-11 are added. Support for the new claims can also be found on page 4, line 16 to page 5, line 4 of the application. Thus, on entry of this amendment, claims 1-11 are pending in the application.

Reconsideration of this application is respectfully requested in light of the amendments and the remarks contained below.

Drawings

A replacement sheet for Fig. 4 is attached including the legend --Prior Art-- as required by the Examiner. Applicant submits that no new matter has been added by the amendment to the drawings.

Allowable Subject Matter

Applicant thanks the Examiner for his indication in the Office Action that claim 2 would be allowable if rewritten in independent form including all the limitations of the base claim and any intervening claims.

Rejections Under 35 U.S.C. 102(b)

Claims 1 and 8-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Davenport et al. To the extent that the grounds of the rejections may be applied to the claims now pending in this application, they are respectfully traversed.

The present invention is generally directed to a projection display device. The invention recited in claims 1-9 comprises an optical system comprising a light source for emitting light along a first direction to define an optical axis, wherein the light source is coaxially disposed with the optical axis, and a light pipe, non-coaxially disposed with the optical axis. The light pipe deviates from the optical axis by a predetermined distance.

In contrast, Davenport et al disclose an illumination system. While the optical elements described in Davenport et al have similarities to those recited in claim 1, it will be shown below that the disposition of the elements is quite different to that recited in claim 1. For this reason, it is Applicant's belief that claim 1 patentably distinguishes over the disclosure of Davenport et al.

Davenport et al do not teach or suggest a projection display device having an optical system, the optical system comprising a light source for emitting lights along a first direction to define an optical axis, wherein the light source is coaxially disposed with the optical axis, and a light pipe, non-coaxially disposed with the optical axis, wherein the light pipe deviates from the optical axis by a predetermined distance, as recited in claim 1.

To anticipate a claim, a reference must teach every element of the claim. In this regard, the Federal Circuit has held:

"A claim is anticipated only if each and every element as set forth in the claim is found, either expressly or inherently described, in a single prior art reference." *Verdegaal Bros. v. Union Oil Co. of California*, 814 F.2d 628, 631, 2 USPQ2d 1051, 1053 (Fed. Cir. 1987).

"The identical invention must be shown in as complete detail as is contained in the ... claim." *Richardson v. Suzuki Motor Co.*, 868 F.2d 1226, 1236, 9 USPQ2d 1913, 1920 (Fed. Cir. 1989).

Davenport et al disclose an optical system comprising a point source 40, a reflector 12 having an axis 34, and an optical fiber 16. See Fig. 2 of Davenport et al.

However, with reference again to Fig. 2 of the patent, it is evident that Davenport et al fail to teach or suggest a light source for emitting lights along a first direction to define an optical axis, **wherein the light source is coaxially disposed with the optical axis**, and a light pipe, non-coaxially disposed with the optical axis, wherein the light pipe deviates from the optical axis by a predetermined distance.

For at least the reasons described above, it is Applicant's belief that Davenport et al fail to teach or suggest all the limitations of claim 1. Applicant therefore respectfully requests that the rejection of claim 1 be withdrawn and the claim passed to issue. Insofar as claims 2-9 depend from claim 1 either directly or indirectly, and therefore incorporate all of the limitations of claim 1, it is Applicant's belief that these claims are also in condition for allowance.

Rejection Under 35 U.S.C. 103(a)

Claims 3-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Davenport et al in view of Okamori et al.

As noted above, it is Applicant's belief that claims 3-7 are allowable by virtue of their dependency from claim 1. For this reason, the Examiner's arguments in connection with these claims are considered moot and will not be addressed here.

New Claims 10-11

New claim 10 recites a projection display device having an optical system, the optical system comprising a light source for emitting lights along a first direction to define an optical axis, wherein the light source is non-coaxially disposed with the optical axis; and a light pipe, coaxially disposed with the optical axis, receiving the lights from the light source and transmitting lights with a virtual arc array, wherein the light source deviates from the optical axis by a predetermined distance in a second direction perpendicular to the first direction, so that the lights with the virtual arc array is asymmetrical.

New claim 11 depends from claim 10, and further recites that the predetermined distance is substantially between 0.3 and 0.7mm.

Neither Davenport et al nor Okamori et al teach or suggest an optical system comprising a light source for emitting lights along a first direction to define an optical axis, ***wherein the light source is non-coaxially disposed with the optical axis; and a light pipe, coaxially disposed with the optical axis***, wherein the light source deviates from the optical axis by a predetermined distance, as recited in claim 10.

For at least the reasons described above, it is Applicant's belief that the cited references fail to teach or suggest all the limitations of claim 10. Applicant therefore respectfully requests that the rejection of claim 10 be withdrawn and the claim passed to issue. Insofar as claim 11 depends from claim 10, and therefore incorporates all of the limitations of claim 10, it is Applicant's belief that this claim is also in condition for allowance.

Furthermore, claim 11 is believed to be allowable independent of the allowance of claim 10 for the same reasons described by the Examiner in connection with claim 2.

Conclusion

The Applicant believes that the application is now in condition for allowance and respectfully requests so.

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Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Nelson A. Quintero', written over a horizontal line.

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